Waterwheel

Kit contains:

- Foam ball
- Straw
- Jumbo craft stick, quartered
- String
- Triceratops picture
- Piece of corrugated plastic
- Rubberband
- 2 Paper clips

You will need: a sharp pencil, a table knife, glue, tape, and a medium bowl or cylindrical container.

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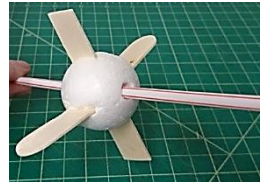
INSTRUCTIONS

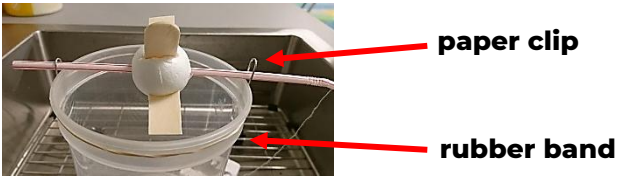
Step 1. Poke a sharp pencil through the middle of the foam ball. Slide the straw through the hole.

Step 2. The 4 craft stick pieces will be the paddles on your waterwheel. Insert a table knife into the foam at regular intervals, and then push in the craft stick pieces.



Step 3. Glue your triceratops to the piece of plastic. Tie one end of the string through the hole.

Step 4. Stretch a rubber band around the rim of a bowl or cylindrical container. Tuck the paper clips into opposite sides. Slide the water wheel through the clips. This will keep your device in place.



Step 5. Tape the other end of your triceratops string to one end of the straw.

Step 6. Place your waterwheel under the faucet of your kitchen sink. You may wish to stack some spare dishes beneath it to give it extra height. Turn on the water to spin the wheel to wind the string and lift the dinosaur.

LEARN ABOUT WATERWHEELS

A **waterwheel** is a device that turns the energy from falling or running water into mechanical energy that can power machinery. Buckets or paddles are mounted around a wheel. The force of the moving water against the paddles, or the weight of water poured into the buckets, causes it to spin. The resulting power is transmitted to machinery via the shaft of the wheel. Historical evidence of waterwheels dates back to the 1st century B.C.E. in ancient Rome, where they were used in grain mills, and the 1st century C.E. in ancient China, where they were used to power bellows for forging metal.

https://www.britannica.com/technology/waterwheel-engineering

https://www.worldbookonline.com/advanced/article?id=ar594620&st=water+wheel#tab=homepage